

Final Report

to

Kalle A. Mattila

from

Puhua Dangzhi

Summary

What? 118 Tibetan village solar cookers

Where? Xiangsha Village, Galeng Township
Lamu Village, Wendu Township,
Xunhua Salar Autonomous County, Haidong Region, Qinghai Province, PR China

Who? 118 households (600 Tibetans)

Cost? 10,489.30RMB (Kalle A. Mattila) + 5,900RMB (local contribution)

Dear Mr. Kalle A. Mattila,

I'm glad to report on the successful completion of the solar cooker project in Galeng and Wendu townships. We converted the 1,000 EUROS you sent to 10,489.30RMB on April 29, 2007. I contacted the leaders from the villages, and they collected 50 RMB from each household as the local contribution. Next, I contacted Mr. Rinchenkhar, who is in charge of a Canada Fund Solar energy project. Since they were buying a large number of solar cookers, I was able to buy solar cookers for only 138RMB each. I was able to buy 118 solar cookers using the local contribution with your funds.

About 600 people are benefiting directly from this project. It has especially helped local women and girls by reducing time spent collecting fuel and working in smoky kitchens. Time saved by the women and girls can be spent collecting medicinal herbs and wild plants to sell to increase household income. Old people who are unable to chop wood and make a fire do not need to worry about cooking while the younger ones are out earning cash income. With the solar cooker it is easy for them to boil water for tea and heat their food.

There is also a very substantial benefit to the environment. A similar project in nearby Guide County suggests that when a single solar cooker is properly utilized, four thousand kilograms of organic matter are *not* burned in one year.

Speaking for all the project beneficiaries, I extend my sincere appreciation for your contribution.

Sincerely,
Puhua Dangzhi

Background

Lamu Village

Lamu Village is located four kilometers south of the administrative center of Wendu Tibetan Township. The population of Wendu Township is about 7,900, all of whom are Tibetan. Lamu Village has 74 households and 288 people. Villagers live in adobe-wood rooms constructed around a central, rectangular courtyard.

The village has 370 *mu* of irrigated land. The main crop is wheat, which is mostly consumed by the households (bread, noodles). Other crops include barley, rape, potatoes, and beans. Most of the agricultural work is done by the women. Plowing is done with cattle and mules, weeding and harvesting are done by hand.

In addition to farming, each household has livestock. In total, the community has 41 cattle, 80 sheep, 23 mules, and 28 donkeys. Three households each day take turns herding the livestock to and on nearby mountains. The annual cash income is approximately 145 *rmb*/person, mostly earned by (young men) working outside the area collecting caterpillar fungus and doing road work.

Xiangsha Village

Xiangsha Village is located 57 km southwest of Xunhua County Town in a very dry area surrounded by low mountains. The village has 93 households with 446 residents and 200 livestock. It has 325 *mu* of irrigated land and 176 *mu* of dry land. Years of drought have caused poor crop production which, together with poor road conditions, have limited the improvement of living conditions and village development in general. The annual income is 110 *rmb*/person, mostly earned by (young men) working outside the area collecting caterpillar fungus and doing road work. There is a forest nearby from which people used to collect fuel and cut trees to sell to Muslim businessman, but this was strictly prohibited by the government three years ago.

Recipients

文都乡白草毛行政村太阳灶分配情况表

序号	村名	户名	家庭人口	配发日期		收费	收货人	颁发人	项目来源
				月	日				
1	白草毛	王德成	7人			50元		东知	外人援资
2	白草毛	王德成	5人			50元		东知	外人援资
3	白草毛	王德成	2人			50元		东知	外人援资
4	白草毛	王德成	3人			50元		东知	外人援资
5	白草毛	王德成	3人			50元		东知	外人援资
6	白草毛	王德成	5人			50元		东知	外人援资
7	白草毛	王德成	2人			50元		东知	外人援资
8	白草毛	王德成	4人			50元		东知	外人援资
9	白草毛	王德成	4人			50元		东知	外人援资
10	白草毛	王德成	6人			50元		东知	外人援资
11	白草毛	王德成	6人			50元		东知	外人援资
12	白草毛	王德成	4人			50元		东知	外人援资
13	白草毛	王德成	4人			50元		东知	外人援资
14	白草毛	王德成	4人			50元		东知	外人援资
15	白草毛	王德成	3人			50元		东知	外人援资
16	白草毛	王德成	6人			50元		东知	外人援资
17	白草毛	王德成	3人	5	31	50元		东知	外人援资
18	白草毛	王德成	4人	5	31	50元		东知	外人援资
19	白草毛	王德成	4人	5	31	50元		东知	外人援资
20	白草毛	王德成	3人	5	31	50元		东知	外人援资
21	白草毛	王德成	4人			50元		东知	外人援资
22	白草毛	王德成	1人			50元		东知	外人援资
23	白草毛	王德成	4人			50元		东知	外人援资
24	白草毛	王德成	3人			50元		东知	外人援资
25	白草毛	王德成	5人			50元		东知	外人援资
26	白草毛	王德成	4人			50元		东知	外人援资
27	白草毛	王德成	4人			50元		东知	外人援资
28	白草毛	王德成	1人			50元		东知	外人援资
29	白草毛	王德成	4人			50元		东知	外人援资
30	白草毛	王德成	5人			50元		东知	外人援资
31	白草毛	王德成	1人			50元		东知	外人援资
32	白草毛	王德成	1人			50元		东知	外人援资
33	白草毛	王德成	4人			50元		东知	外人援资

把温暖送给千万家，让全中国人民富起来！

文都乡白草毛行政村太阳灶分配情况表

序号	村名	户名	家庭人口	配发日期		收费	收货人	颁发人	项目来源
				月	日				
34	白草毛	白草毛	1人	5	31	50元	白草毛	东知	外人援资
35	白草毛	白草毛	3人			50元	白草毛	东知	外人援资
36	白草毛	白草毛	1人	5	31	50元	白草毛	东知	外人援资
37	白草毛	白草毛	4人			50元	白草毛	东知	外人援资
38	白草毛	白草毛	6人			50元	白草毛	东知	外人援资
39	白草毛	白草毛	4人			50元	白草毛	东知	外人援资
40	白草毛	白草毛	4人			50元	白草毛	东知	外人援资
41	白草毛	白草毛	5人			50元	白草毛	东知	外人援资
42	白草毛	白草毛	3人	5	31	50元	白草毛	东知	外人援资
43	白草毛	白草毛	6人			50元	白草毛	东知	外人援资
44	白草毛	白草毛	4人			50元	白草毛	东知	外人援资
45	白草毛	白草毛	5人			50元	白草毛	东知	外人援资
46	白草毛	白草毛	3人			50元	白草毛	东知	外人援资
47	白草毛	白草毛	1人			50元	白草毛	东知	外人援资
48	白草毛	白草毛	6人			50元	白草毛	东知	外人援资
			人			50元		东知	外人援资

尕楞乡香沙村、宗占村太阳灶分配情况表

序号	村名	户名	家庭人口	配发日期		收费	收货人	颁发人	项目来源
				月	日				
01	香沙	麻尼房	1人	5	26	50元	麻尼房	旦斗、斗改杰	
02	香沙	华落加	5人	5	26	50元	华落加	旦斗、斗改杰	
03	香沙	才旦卓玛	4人	5	26	50元	才旦卓玛	旦斗、斗改杰	
04	香沙	下午才让	6人	5	26	50元	下午才让	旦斗、斗改杰	
05	香沙	旦正才让	4人	5	26	50元	旦正才让	旦斗、斗改杰	
06	香沙	下午杰	4人	5	26	50元	下午杰	旦斗、斗改杰	
07	香沙	才旦	5人	5	26	50元	才旦	旦斗、斗改杰	
08	香沙	尕日	5人	5	26	50元	尕日	旦斗、斗改杰	
09	香沙	娘毛先	4人	5	26	50元	娘毛先	旦斗、斗改杰	
10	香沙	旦普	6人	5	26	50元	旦普	旦斗、斗改杰	
11	香沙	才让扎西	4人	5	26	50元	才让扎西	旦斗、斗改杰	
12	香沙	加在	5人	5	26	50元	加在	旦斗、斗改杰	
13	香沙	周加	5人	5	26	50元	周加	旦斗、斗改杰	
14	香沙	普周	4人	5	26	50元	普周	旦斗、斗改杰	
15	香沙	旦告	5人	5	26	50元	旦告	旦斗、斗改杰	
16	香沙	公保杰	3人	5	26	50元	公保杰	旦斗、斗改杰	
17	香沙	改先	4人	5	26	50元	改先	旦斗、斗改杰	
18	香沙	下午太	5人	5	26	50元	下午太	旦斗、斗改杰	

尕楞乡香沙村、宗占村太阳灶分配情况表

序号	村名	户名	家庭人口	配发日期		收费	收货人	颁发人	项目来源
				月	日				
19	香沙	看本	6人	5	26	50元	看本	旦斗、斗改杰	
20	香沙	卓玛	3人	5	26	50元	卓玛	旦斗、斗改杰	
21	香沙	尕藏	4人	5	26	50元	尕藏	旦斗、斗改杰	
22	香沙	拉送	3人	5	26	50元	拉送	旦斗、斗改杰	
23	香沙	然交	5人	5	26	50元	然交	旦斗、斗改杰	
24	香沙	斗尕杰	6人	5	26	50元	斗尕杰	旦斗、斗改杰	
25	香沙	傲见	3人	5	26	50元	傲见	旦斗、斗改杰	
26	香沙	拉龙太	4人	5	26	50元	拉龙太	旦斗、斗改杰	
27	香沙	才让加	3人	5	26	50元	才让加	旦斗、斗改杰	
28	香沙	高乃	5人	5	26	50元	高乃	旦斗、斗改杰	
29	香沙	夏吾太	4人	5	26	50元	夏吾太	旦斗、斗改杰	
30	香沙	九美	6人	5	26	50元	九美	旦斗、斗改杰	
31	香沙	拉加太	3人	5	26	50元	拉加太	旦斗、斗改杰	
32	香沙	公巴太	4人	5	26	50元	公巴太	旦斗、斗改杰	
33	香沙	交巴杰	3人	5	26	50元	交巴杰	旦斗、斗改杰	
34	香沙	吉合先	6人	5	26	50元	吉合先	旦斗、斗改杰	
35	香沙	道高日	3人	5	26	50元	道高日	旦斗、斗改杰	
36	香沙	当增	4人	5	26	50元	当增	旦斗、斗改杰	

尕楞乡香沙村、宗占村太阳灶分配情况表

序号	村名	户名	家庭人口	配发日期		收费	收货人	颁发人
				月	日			
37	香沙	下午	5人	5	26	50元	下午	旦斗、斗改杰
38	香沙	才让加	4人	5	26	50元	才让加	旦斗、斗改杰
39	香沙	王周太	5人	5	26	50元	王周太	旦斗、斗改杰
40	香沙	巴告	6人	5	26	50元	巴告	旦斗、斗改杰
41	宗占	先巴	4人	5	26	50元	先巴	旦斗、斗改杰
42	宗占	才普	5人	5	26	50元	才普	旦斗、斗改杰
43	宗占	敖高	5人	5	26	50元	敖高	旦斗、斗改杰
44	宗占	才旦	4人	5	26	50元	才旦	旦斗、斗改杰
45	宗占	下午加	5人	5	26	50元	下午加	旦斗、斗改杰
46	宗占	下才让	6人	5	26	50元	下才让	旦斗、斗改杰
47	宗占	东巴	5人	5	26	50元	东巴	旦斗、斗改杰
48	宗占	美给	4人	5	26	50元	美给	旦斗、斗改杰
49	宗占	斗拉	4人	5	26	50元	斗拉	旦斗、斗改杰
50	宗占	多多	5人	5	26	50元	多多	旦斗、斗改杰
51	宗占	赞浪	6人	5	26	50元	赞浪	旦斗、斗改杰
52	宗占	完代草	4人	5	26	50元	完代草	旦斗、斗改杰
53	宗占	桑日	5人	5	26	50元	桑日	旦斗、斗改杰
54	宗占	下午杰	6人	5	26	50元	下午杰	旦斗、斗改杰

尕楞乡香沙村、宗占村太阳灶分配情况表

序号	村名	户名	家庭人口	配发日期		收费	收货人	颁发人
				月	日			
55	宗占	多杰	5人	5	26	50元	多杰	旦斗、斗改杰
56	宗占	扎西	4人	5	26	50元	扎西	旦斗、斗改杰
57	宗占	尼玛	6人	5	26	50元	尼玛	旦斗、斗改杰
58	宗占	才让加	3人	5	26	50元	才让加	旦斗、斗改杰
59	宗占	吉太加	4人	5	26	50元	吉太加	旦斗、斗改杰
60	宗占	才让太	5人	5	26	50元	才让太	旦斗、斗改杰
61	宗占	多杰本	5人	5	26	50元	多杰本	旦斗、斗改杰
62	宗占	桑杰本	4人	5	26	50元	桑杰本	旦斗、斗改杰
63	宗占	斗太	4人	5	26	50元	斗太	旦斗、斗改杰
64	宗占	旦配	6人	5	26	50元	旦配	旦斗、斗改杰
65	宗占	拉高	5人	5	26	50元	拉高	旦斗、斗改杰
66	宗占	桑吉满	5人	5	26	50元	桑吉满	旦斗、斗改杰
67	宗占	索南本	4人	5	26	50元	索南本	旦斗、斗改杰
68	宗占	多杰杰	5人	5	26	50元	多杰杰	旦斗、斗改杰
69	宗占	索白	5人	5	26	50元	索白	旦斗、斗改杰
70	宗占	下拉	4人	5	26	50元	下拉	旦斗、斗改杰

མཚོ་སྐོན་དགོ་བོན་སློབ་མེན་མི་དུག་ལ་དགོ་བོན་སློབ་སྦྱོང་གི་སློབ་མའི་ལས་ཀྱི་འབྲི་ཚོགས་
青海师范大学民族师范学院学生作业纸

成績:

年 月 日

[illegible]

མཆོ་སྨོན་དགེ་ཐོན་སློབ་ཆེན་མི་དུགས་དགེ་ཐོན་སློབ་སློབ་གློང་གི་སློབ་མཁོ་ལས་བྱ་འབྲི་ཤོག
青海师范大学民族师范学院学生作业纸

科目:

第

次作业第

页

成绩:

系

年级

学号

姓名:

年

月

日

མཐོང་པ་དང་ཐུག་པ་དག་མཆོག་གི་ཐུག་པ་ལས་འདས་པ་ཡིན། དེ་བས་
ཁྱེད་ཀྱི་ཤི་སྐྱེ་དྲིན་པ་རྗེས་སུ་ཡི་རུང་པ་དང་། སྤང་མཚུངས་
དུས་ལྷོད་པ་ཤི་སྐྱེ་གི་ཐུག་པ་ལས་འདས་པ་ཤི་སྐྱེ་ལྷུ་པ་མི་ང་ཆོ་དང་
འདྲ་བ་དེ་དག་པ་འདྲ་ཁྱེད་ཀྱི་ཤི་སྐྱེ་གི་ཐུག་པ་ལས་འདས་པ་ཤི་སྐྱེ་
འཕྲུ་ཆེ་ལྷུ་པ་ལགས།

མཐོང་པ་ཤི་སྐྱེ་ལས་མ་དྲོན་ཡིད་པ་ལོན་ཏུ་འགྱུར་པ་འགོག་

ཞེས་པ་བཟུང་པ་ཐུག་པ་ཤི་སྐྱེ་དཔྱད་པ་ལྷུ་ལྷུ་ལགས།

2007 ལོའི་ཟླ་ ༦ ལོའི་ཟླ་ 25 ཉིན་

Translation

To the compassionate and merciful donor

Firstly, we hope you are in good health and successful in your career.

We are reminded of your generosity every time the solar cookers flicker at the gate of a household. Your contribution had benefited us enormously: 1) Solar cookers have reduced women's work by one-third. 2) They also reduced the usage of fuel such as wheat stalks and bushes thereby protecting the environment and keeping our houses cleaner. 3) Smoke in the houses is reduced since women do not need to make fires as much as before. 4) The solar cooker boils water fast, making hot water available whenever it is wanted. 5) They reduce family expenses. Therefore, we all will never forget your support.

Finally, we wish you a happy and successful life.

Lhalung (village leader)

June 25, 2007

Receipt



中国银行
BANK OF CHINA

兑换水单
EXCHANGEMEMO/ADVICE

会计画面号 8000035
柜员号 8456
柜员传票号 0026
日期 2007/04/29

		牌价 RATE	
兑换	EUR1,000.00 CNY10,523.00	EUR1,000.00 CNY33.70 CNY10,489.30	1048.930000
国籍 Nationality	USA	护照号码 Passport No	日期 Date
姓名及签字 Name & Signature	Kevin Stuart	地址/饭店 Address/Hotel	CNY 付: 10,489.30
摘要 Remarks	临时客户		

② 交客户

中国银行签章

Photos



Many fewer of such bushes will be collected by women and then burnt.



The solar cooker truck at the village.



Solar cookers were distributed according to a vote managed by the village leader.



Xiucang Primary School received a solar cooker for use by teachers and students.



Xiawu Cairang and three colleagues carry the solar cooker to Yari Primary School.



67 year old Mrs. Omo mchog boils water.



Dgon mchog melts butter for butter lamps.



Mrs. Mchogskyid cleans her solar cooker.

Interviews



Mr. Dbangphyug is 72 years old and his wife is 78. He has three sons and used to live with his youngest son, a middle school teacher. This son abandoned his parents, his wife, and two sons, to marry another woman. Now, fuel is huge problem for Mr. Dbangphyug and his wife. In fall, his wife collects leaves that they use for making fire and sometimes villagers contribute some fuel for them. Thus their life is full of worry and unhappiness. But now that they have a solar cooker and he said, “It is like our soul. It is very useful tool, but I could never afford to buy one. I sometimes went to the neighbor with a kettle to boil water, but it was hard because of my aching legs and back. At present, we are doing most of the cooking on the solar cooker, which has reduced our worries about fuel. I can do my chanting and my wife doesn’t have to collect leaves. I am very grateful to the donor.



Mrs. 'brug mo is 32 years old and there are four people in her family, her mother-in-law, her husband, and two girls who attend primary school. Her family has 4.2 *mu* of farmland, and the crop income is 700/*mu*/year. The main fuel for the family is yak dung and bushes that she used to carry on her back 2 hours from the forest each day. But now collecting in the forest is strictly prohibited. The villagers had to promise they would only buy coal for occasions like an 80 year old birthday party or a wedding. She tells of the following difficulties that she had to face before the solar cooker project: "My house is very small and the kitchen is even smaller. Every time I make a fire, the smoke fills the kitchen, bringing tears to my eyes and my family members had to leave the room while I cooked. I felt embarrassed when we had a guest since the local people think that it means 'I don't even know how to make a fire'. My mother-in-law did this for many years and now her eyesight is very poor, which I discovered while we were weeding together in the field. She sometimes roots up wheat instead of weeds. So cooking is extremely hard and you can see how bad my house looks from the smoke. The solar cooker greatly reduced the amount of time I spend in the smoky kitchen--almost no time in the summer. I can use the solar cooker from 9:00 AM to 6:00 PM and it only takes 20 minutes for a kettle of water to boil. For breakfast and dinner I use the hot water that was stored in thermoses the day before, making meal preparation much faster. My mother-in-law and I used to drink cold water at lunch after weeding in the field on hot days while we rested in the shade. Drinking cold water is bad for the stomach, especially for an old woman like my mother-in-law, but now we can rest in the shade of the courtyard and drink hot water or tea. So I will never forget this solar cooker project and I greatly thank the donor."



Mrs. 'brug mo's kitchen.



Mrs. Mrs. 'brug mo's ceiling, blackened by cooking fires.



Mrs. Tshe ring mtsho is 62 years old. There are six people in her family--her husband, her son, her daughter-in-law, her two grandchildren, and her. Her grandchildren are students, and the others are farmers. She said, "The solar cooker is very useful or us. Because of them, my daughter-in-law doesn't have to fetch as much wood where she is at risk of been caught by forest-keepers who are increasingly strict. Now I don't have to ask my granddaughter to collect yak dung when she comes home from school. I can adjust the solar cooker easily which is very convenient. I don't have to worry about hot water to drink while the younger ones are out working in the field. They can work in the field all day without worrying about me and my husband having hot water to drink." Her husband added, "Everyone searches for convenience and the solar cooker provides it, but it is not like buying a tractor or other machine since it doesn't need fuel. Once you have one, you get the benefit without additional cost. Since deforestation was getting more and more serious, women were starting to cut plants and dig roots close to the village, damaging our surroundings. The solar cooker project has helped improve our environment."